

Docket No. 282186US0PCT



**MAIL STOP PCT**  
IFW

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Dominique SWINNEN, et al.

SERIAL NO: 10/565,538

GAU:

FILED: January 23, 2006

EXAMINER:

FOR: ALKYNYL ARYL CARBOXAMIDES

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- ☒ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

Richard L. Treanor

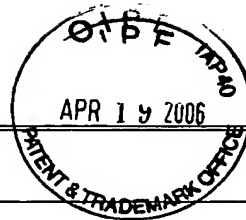
Registration No. 36,379

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Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
282186US0PCTSERIAL NO.  
10/565,538

## LIST OF REFERENCES CITED BY APPLICANT

## APPLICANT

Dominique SWINNEN, et al.

## FILING DATE

January 23, 2006

## GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	2005/124656	06/09/05	Dominique SWINNEN et al., Serial No. 10/501,344			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AB	02/18321	03/07/02	WO		NO
	AC	03/64376	08/07/03	WO		NO
	AD	00/35859	06/22/00	WO		NO
	AE	2005/82347	09/09/05	WO		NO

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AF	Rexford S. AHIMA et al. "Leptin", ANNU. REV. PHYSIOL., vol. 62, pages 413-437 2000
	AG	Gustave BERGNES, et al., "Generation of an ugi library of phosphate mimic-containing compounds and identification of novel dual specific phosphatase inhibitors", BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol. 9, pages 2849-2854 1999
	AH	Jeffrey D. BJORGE, et al., "Identification of protein-tyrosine phosphatase 1B as the major tyrosine phosphatase activity capable of dephosphorylating and activating c-Src in several human breast cancer cell lines", THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 275, no. 52, pages 41439-41446 2000
	AI	Alan CHENG, et al., "Attenuation of leptin action and regulation of obesity by protein tyrosine phosphatase 1B", DEVELOPMENTAL CELL, vol. 2, pages 497-503 2002
	AJ	Ralph A. DEFRONZO, et al., "Insulin resistance: a multifaceted syndrome responsible for NIDDM, obesity, Hypertension, dyslipidemia, and atherosclerotic cardiovascular disease", DIABETES CARE, vol. 14, no. 3, pages 173-194 1991
	AK	Evanthia Diamanti-Kandarakis, et al, "Therapeutic effects of metformin on insulin resistance and hyperandrogenism in polycystic ovary syndrome", EUROPEAN JOURNAL OF ENDOCRINOLOGY, vol. 138, pages 269-274 1998
	AL	Andrea DUNAIF, "Insulin resistance and the polycystic ovary syndrome: mechanism and implications for pathogenesis", ENDOCRINE REVIEWS, vol. 18, no. 6, pages 774-800 1997
	AM	Mounib ELCHEBLY, et al., "Modulation of insulin signaling by protein tyrosine phosphatases", J. MOL. MED., vol. 78, pages 473-482 2000
	AN	R.J. Jarrett, "Cardiovascular disease and hypertension in diabetes mellitus", DIABETES/METABOLISM REVIEWS, vol. 5, no. 7, pages 547-558 1989
	AO	Brian P. Kennedy, et al., "Protein tyrosine phosphatase-1B in diabetes", BIOCHEMICAL PHARMACOLOGY, vol. 60, pages 877-883 2000

☒ Additional References sheet(s) attached

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO.  282186US0PCT		SERIAL NO.  10/565,538	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT  Dominique SWINNEN, et al.			
				FILING DATE  January 23, 2006		GROUP	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AP	Lori D. KLAMAN, et al., "Increased energy expenditure, decreased adiposity, and tissue-specific insulin sensitivity in protein-tyrosine phosphatase 1B-deficient mice", MOLECULAR AND CELLULAR BIOLOGY, vol. 20, no. 15, pages 5479-5489 2000					
	AQ	Mary C. MCGUIRE, et al., "Abnormal regulation of protein tyrosine phosphatase activities in skeletal muscle of insulin-resistant humans", DIABETES, vol. 40, pages 939-942 1991					
	AR	Joseph MEYEROVITCH, et al, "Hepatic phosphotyrosine phosphatase activity and its alterations in diabetic rats", J. CLIN. INVEST., vol. 84 pages 976-983 1989					
	AS	Niels Peter Hundahl Moller, et al., "Protein tyrosine phosphatases (PTPs) as drug targets: inhibitors of PTP-1B for the treatment of diabetes", CURRENT OPINION IN DRUG DISCOVERY & DEVELOPMENT, vol. 3, no. 5, pages 527-540 2000					
	AT	Purnima PATHRE, et al., "PTP1B regulates neurite extension mediated by cell-cell and cell-matrix adhesion molecules", JOURNAL OF NEUROSCIENCE RESEARCH, vol. 63, pages 143-150 2001					
	AU	Gerald M. REAVEN, et al., "Nonketotic diabetes mellitus: insulin deficiency or insulin resistance?", THE AMERICAN JOURNAL OF MEDICINE, vol. 60, pages 80-88 1976					
	AV	Lisa P. SHOCK, et al., "Protein tyrosine phosphatases expressed in developing brain and retinal Mueller glia", MOLECULAR BRAIN RESEARCH, vol. 28, pages 110-116 1995					
	AW	Janet SREDY, et al., "Insulin resistance is associated with abnormal dephosphorylation of a synthetic phosphopeptide corresponding to the major autophosphorylation sites of the insulin receptor", METABOLISM, vol. 44, no. 8, pages 1074-1081 1995					
	AX	Robert W. STOUT, "Overview of the association between insulin and atherosclerosis", METABOLISM, vol. 34, no. 12, suppl. 1, pages 7-12 1985					
	AY	Sung Min SUHR et al., "Antisense oligodeoxynucleotide evidence that a unique osteoclastic protein-tyrosine phosphatase is essential for osteoclastic resorption", JOURNAL OF BONE AND MINERAL RESEARCH, vol. 16, no. 10, pages 1795-1803 2001					
	AZ	Zhong-Yin ZHANG, "Protein tyrosine phosphatases: prospects for therapeutics", CURRENT OPINION IN CHEMICAL BIOLOGY, vol. 5, pages 416-423 2001					
	AAA	Fiona J. PIXLEY, et al., "A heteromorphous protein-tyrosine phosphatase, PTP $\phi$ , is regulated by CSF-1 in macrophages", THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 270, no. 45, pages 27339-27347 1995					
	AAB	Fiona J. PIXLEY, et al., "Protein tyrosine phosphatase $\phi$ regulates paxillin tyrosine phosphorylation and mediates colony-stimulating factor 1-induced morphological changes in macrophages", MOLECULAR AND CELLULAR BIOLOGY, vol. 21, no. 5, pages 1795-1809 2001					
Examiner						Date Considered	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



U.S. PCT Application Serial No: 10/565,538

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#### STATEMENT OF RELEVANCY

- 1) References AB & AC have been cited in the International Search Report. A copy of these references is being submitted herewith.
- 2) References            have been cited in the corresponding            Search Report. A copy of these references is being submitted herewith.
- 3) References AD-AZ are discussed in the specification. A copy of these references is being submitted herewith.
- 4) References AAA & AAB are additional prior art known to Applicant. A copy of these references is being submitted herewith.



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Serial No.: 10/565,538

Inventor: Dominique SWINNEN, et al.

LIST OF RELATED CASES CITED BY  
APPLICANT UNDER 37 CFR 1.56

Filing Date: January 23, 2006

Group:

**LIST OF RELATED CASES**

<u>Examiner Initial</u>	<u>Docket No.</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Patent App. Publication No.</u>	<u>Inventor or Applicant</u>
	282186US0PCT*	10/565,538	01/23/06		SWINNEN, et al.
	283569US0PCT	10/565,557	01/23/06		THOMAS, et al.
	255452US0PCT	10/501,344	01/26/05	US 2005/0124656 A1	SWINNEN, et al.

Examiner

Date Considered

\*Present Application; listed for information  
NFO/sbs/kch